

Atlantic Division

ROICC LAJES FIELD, AZORES

ROICC Report

NOVEMBER 2002

Project Summary:

Contract Number: **N62470-97-C-7056**

Title and description: **REPLACE PUMPHOUSE AND TANKS (A/F Project # MQNA 94-3006).**

The work includes the construction of a constant pressure 2400 GPM pumping facility to replace an existing fueling system. The project includes two 10,000 barrel aboveground jet fuel storage tanks and associated concrete containment walls and basin, a pump house structure and control room, a two position truck loading facility and miscellaneous construction features including underground fuel lines, storm line, sanitary sewer force mains, oil/water separator, new concrete pavements, abandonment or removal of thirty 50,000 gallon underground fuel tanks and the associated underground fuel lines and the demolition of the existing aboveground building structures and equipment associated with the existing fueling system.

Award date: 9/28/99

% Complete: Planned – 99.5% Actual – 99.5%

Award amount (including options): \$6,030,000.00

Current price (including change orders and options): \$6,544,503.36

Projected total cost at completion (including all pending and potential modifications): \$6,544,503.36

Original Contract Completion Date (CCD): 2/14/02

Current CCD: 12/02/02

Potential CCD: 12/30/02

Actual Beneficial Occupancy Date: 07/11/02

Change Order Rate (all) (\$ value of all change orders / award price; expressed as %): 8.5%

AROICC: Mr. Victor Hugo Borges

A/E of record: Robert & Company

Prime Contractor: SETH, Lda.

Design Assessment: (An assessment of design quality, on a scale of 1 (low) to 10 (high)) - 10

Contractor Performance: (An assessment of construction quality, on a scale of 1 (low) to 10 (high)) - 10

Contractor Performance: (An assessment of construction timeliness, on a scale of 1 (low) to 10 (high)) - 10

Remarks: A synopsis of significant project events and milestones follows:

Construction Photos



South view of Pumphouse and Tanks # 1 and 2.



East view of the removal and demolition of the old Hydrant underground tanks.

REMARKS:

OCTOBER 1999:

- The contractor's lay-down area was approved by Headquarters, Azores Air Zone.
- The Pre-construction conference was conducted on 10/27/99.

NOVEMBER 1999:

- Submittal procedures were begun.

DECEMBER 1999:

- No significant events took place during this month.

JANUARY 2000:

- Preparation of laydown/storage area was underway.

FEBRUARY 2000:

- Preparation of laydown/storage area continued.
- The contractor was awaiting materials prior to commencing work.
- In anticipation of closing the main traffic route which runs directly through the project site, the contractor completed the detour road improvements.

MARCH 2000:

- Preparation of laydown/storage area continued.
- Water distribution piping and electrical materials arrived at the project site.
- Excavation for the fuel storage dikes began.
- The detour around the project site was scheduled to begin on April 10, 2000.

APRIL 2000:

- Excavation for new storage tanks and containment dikes was in progress.
- The road closure and detour took effect on April 10.
- Pre-fabrication of the reinforcement steel for the containment dike wall foundations began.
- Excavation for the water line relocation began.

MAY 2000:

- Excavation for the new tanks and containment dikes was completed.
- Excavation for the water line relocation continued.
- Placement of formwork for the concrete tank foundations began.
- Installation of the pre-fabricated reinforcement steel for the containment dike wall foundations began.
- Installation of the new water line began.
- Definitization of the modification to change seismic zones (resulting in a change in design of the two new tanks) occurred. The modification, which was executed on May 31, resulted in a cost growth of \$37,876.91 and a time extension of 40 days.

JUNE 2000:

- Excavation for the water line relocation and placement of the new lines was completed.
- Testing of the water lines began.
- Installation of reinforcement steel for the foundations of both new tanks was underway.
- Placement of concrete in the containment dike wall foundations, dike wall and foundations of both new tanks began.
- Installation of the pre-fabricated reinforcement steel for the containment dike wall foundations and walls continued.

JULY 2000:

- The new water lines were tested, flushed and connected. The water distribution system was successfully returned to service.
- Removal of the existing water lines began.
- Placement of concrete in the containment dike wall foundations, dike wall and tank ring walls continued.
- Installation of the pre-fabricated reinforcement steel for the containment dike wall foundations and walls continued.
- A contract modification to compensate the contractor for additional excavation required during work around the new storage tanks, in the amount of \$37,380.93, was executed on July 31, 2000. It included a time extension of 30 days.

AUGUST 2000:

- Removal of the existing water lines was finished.
- The concrete ring wall foundations and walls were completed.
- Placement of concrete in the containment dike wall foundations and dike walls continued.
- Excavation for the pumphouse was completed and compaction for the foundations began.
- Repair of existing control valves for the existing 18 fuel hydrants began.
- Work began on the new electrical manholes.
- Construction of the sump pump foundations began.

SEPTEMBER 2000:

- Placement of concrete in the containment dike wall foundations and dike walls continued.
- Backfilling the tank ring walls began.
- Repair of the existing control valves for the existing 18 fuel hydrants continued. To date a total of eight have been repaired.
- Work continued on the new electrical manholes.
- Construction of the sump pump foundations continued.
- Compaction for the pump house foundations was finished.
- Installation of the pump house foundations began.
- A contract modification to compensate the contractor for additional excavation required during the relocation of the underground water lines, in the amount of \$10,766.51, was executed on September 26, 2000. It included a time extension of 15 days.

OCTOBER 2000:

- Placement of concrete in the containment dike wall foundations and dike walls continued.
- Backfilling of the tank ring walls was completed and the membrane liners were installed for both new tanks.
- Repair of the existing control valves for the existing 18 fuel hydrants continued. Four more of the valves were returned to the United States for calibration.
- Work continued on the new electrical manholes.
- Construction of the sump pump foundations continued.
- Installation of the pump house foundations continued.

NOVEMBER 2000:

- Placement of concrete in the containment dike wall foundations and dike walls continued.
- Four of the eighteen existing control valves remained in the United States being calibrated.
- Work continued on the new electrical manholes.
- Construction of the sump pump foundations continued.
- Installation of the pump house foundation continued.
- Earthwork associated with the access roads for the new fill stands began.
- A contract modification to compensate the contractor for additional work required to provide larger than originally specified electrical man-holes and other minor electrical work, in the amount of \$33,424.06, was executed on November 28, 2000. It included a time extension of 25 days.

DECEMBER 2000:

- Installation of ground rods and cables for the new tanks began.

JANUARY 2001:

- Installation of the structural steel and roof decking for the new pump house began.
- Installation of ground rods and cables for the new tanks was completed.
- Backfilling around the new pump house was completed.
- Steel material for the new tanks began to arrive at the site.

FEBRUARY 2001:

- Installation of the structural steel for the new pump house was completed.
- Installation of the containment basin for the new truck fill station, as well as the man-holes and drains for the fill stand began.
- Contractor began installing the underground conduit system in the pump house.
- All material for the new tanks was received.
- A no-cost contract modification to alter the type of specified material for the new roads around the project site was executed on February 27, 2001. It did not include a time extension.

MARCH 2001:

- Installation of all electrical conduits in the pump house area was finished.
- Backfilling inside the pump house was completed.
- Installation of the foundations for the pipe supports in the pump house area was begun. The contractor received piping materials. Pump house pipe preparation was begun.
- Installation of the cathodic protection system and bottom plates for tank #2 was finished. The first steel ring wall for tank #2 was begun. Welding was in progress on the bottom and walls of the tank.
- The survey of the fill stand road was completed.
- Trenching for the electrical work for the sump pump and fill stand was begun.

APRIL 2001:

- Installation of the foundations for the pipe supports in the pump house area was completed.
- Installation of the reinforcement for the pump house floor slab was begun.
- Erection of the steel for tank #2 continued.
- Installation of the cathodic protection system and bottom plates for tank #1 was finished.
- The new electrical work associated with the oil water separator and sump pump was in progress.
- A contract modification to compensate the contractor for alterations to numerous specified mechanical and electrical appurtenances, in the amount of \$8,483.36, was executed on April 3, 2001. It included a time extension of 7 days.

MAY 2001:

- All welding and subsequent X-ray testing on tank #2 was completed.
- Seventy-five percent of the welding on tank #1 was finished.
- Installation of the CMU block at the pump house began.
- Ninety percent of the concrete floor slab at the pump house was placed.
- Welding and testing of the pre-fabricated portions of fuel piping was begun.

JUNE 2001:

- All welding and subsequent X-ray testing on tank #1 was completed.
- Fifty percent of the installation of the CMU block at the new pump house was completed.
- The placement of the concrete floor slab in the new pump house was finished.

- Surface preparation (sandblasting and priming) of the interior of tank #2 was begun.

JULY 2001:

- All welding on tanks #1 and #2 is complete.
- Ninety percent of the installation of the CMU block at the new pump house was completed.
- Surface preparation (sandblasting and priming) of the interior of tank #2 is in progress.
- Pipe assembly has started in the pumphouse.
- Piping in progress for the fillstand.
- Concrete dike walls in progress.

AUGUST 2001:

- All CMU walls are completed.
- Surface preparation (sandblasting and priming) of the interior of tank #2 is in progress.
- Pipe assembly is in progress in the pumphouse.
- Piping in progress for the fillstand.
- Concrete dike walls in progress.

SEPTEMBER 2001:

- Work was suspended from September 11 due to the TREATCON DELTA, and later THREATCON CHARLIE; the suspension of work was lifted on September 25.
- All CMU walls are completed.
- The entire metallic roof on the Pump House has been completed.
- The sand blasting is in progress on the exterior of tank # 2.
- Sand blasting and coating is in progress inside tank #2.
- Concrete walls have been finished.
- Piping in progress in the Pump House, and Fill Stand.
- Slab has been placed for the oil water separator.

OCTOBER 2001:

- The sand blasting and coating is in progress on the exterior of tank # 2.
- Coating inside tank # 2 has been completed.
- Piping is in progress from pumphouse to the existing hydrant loop.
- Oil/Water separator has been installed.
- Access road for Fillstands is in progress.
- 16 of 18 total valves have been remanufactured and installed in existing hydrant loop.
- Work on access road to T-800's buildings is scheduled for next month.

NOVEMBER 2001:

- Coating on the exterior of tank # 2 has been completed.
- Coating inside tank # 2 has been completed.
- Sandblasting and coating on the interior and exterior of tank # 1 has been started.
- Piping is in progress from pumphouse to the existing hydrant loop.
- Access road for Fillstands is in progress.
- Work on access road to T-800's buildings has been initiated.
- External insulation and coating of Pumphouse has been started.

DECEMBER 2001:

- Sandblasting and coating on the interior and exterior of tank # 1 is in progress.
- Piping from pumphouse to the existing hydrant loop has been completed, with the exception of the final connection to the loop.
- Access road for Fillstands is in progress.
- Work on access road to T-800's buildings is in progress.
- External insulation and coating of Pumphouse is in progress.
- The interior painting of the Pumphouse has been started.
- The electrical installations in the control room have been started.
- The General Contractor Seth, Lda. had a Christmas break for the workers during December 22 through January 02.

JANUARY 2002:

- Sandblasting and coating on the interior and exterior of tank # 1 is in progress.
- Access road for Fillstands is in progress.
- Work on access road to T-800's buildings is in progress.
- External insulation and coating of Pumphouse is in progress.
- The interior painting of the Pumphouse is in progress.
- The electrical installations in the control room are in progress.
- The plumbing installations for the pumphouse have been started.
- The ductwork for the ceiling in the control room has been started.
- The motor control center and pump controls are being installed together with the associated wiring and connections.
- The grading for the slab in the containment dike # 2 has been started.
- The general grading for the area and access road to buildings 800's are in progress.

FEBRUARY 2002:

- Sandblasting and coating on the interior of tank # 1 has been completed
- Sandblasting and coating on the exterior of tank # 1 is in progress.
- Access road for Fillstands is in progress.
- Work on access road to T-800's buildings is in progress.
- External insulation and coating of Pumphouse has been completed.

- The interior painting of the Pumphouse is in progress.
- The exterior painting of the Pumphouse is in progress.
- The electrical installations in the control room are in progress.
- The plumbing installations for the pumphouse are in progress.
- The ductwork for the ceiling in the control room is in progress.
- The motor control center and pump controls are being installed together with the associated wiring and connections.
- The concrete placement for the slab in the containment dike # 2 is in progress.
- The general grading and landscaping for the area and access road to buildings 800's are in progress.
- The electrical installations inside the Pumphouse are in progress.

MARCH 2002:

- Sandblasting on the exterior of tank # 1 has been completed. Coating on the exterior of the tank is currently being made.
- Access road for Fillstands is in progress.
- The interior painting of the Pumphouse is in progress.
- The exterior painting of the Pumphouse is in progress.
- The electrical installations in the control room are in progress.
- The plumbing installations for the pumphouse have been completed.
- The ductwork for the ceiling in the control room has been completed.
- The motor control center and pump controls, together with the associated wiring and connections have been completed.
- The concrete placement for the slab in the containment dike # 2 has been completed.
- The grading and associated work for containment dike # 1 is in progress.
- The general grading and landscaping for the area and access road to buildings 800's are in progress.
- The electrical installations inside the Pumphouse have been completed.
- The pump motors have been successfully tested.
- The floating pans for tanks # 1 and 2 have been completed.
- The electrical appliances for tank # 2 are in progress.
- The suction and fill-up piping for tank # 2 are in progress.
- The entire spools and filter screens in the system have been installed, and are ready for the flushing of the system.
- The Start-Up and Testing of the system has been rescheduled for the second week of July, due to additional work requested by the customer.

APRIL 2002:

- Coating on the exterior of the tank # 1 is currently being made.
- Access road for Fillstands is in progress.
- The interior painting of the Pumphouse is in progress.
- The exterior painting of the Pumphouse is in progress.
- The electrical installations in the control room have been completed.
- Concrete placement on the slab for containment dike # 1 is in progress.

- The general grading and landscaping for the area and access road to buildings 800's are in progress.
- The pump motors have been fully installed and connected to the pumps; the alignment and grouting of the bases for these units have been completed.
- The electrical appliances for tank # 2 are completed.
- The suction and fill-up piping for both tanks are in progress.
- The entire spools and filter screens in the system have been installed, and are ready for the flushing of the system.
- The light poles for the project have been installed.
- The relocations for the Suction Headers inside the tanks towards the middle section between the walls and the center of the tanks have been completed.
- The Start-Up and Testing of the system has been rescheduled for the second week of July, due to additional work requested by the customer which includes the relocation of the Suction Header and an additional ATG system for the Product Recovery Tank. The date has tentatively been fixed on the week between the 8th to the 13th of July 2002, although the final date is still pending for coordination.
- By customer's request, an ATG system for fuels accountability needs to be installed on the product recovery tank for maintenance drains & relief systems, as it automatically moves fuel back to the system. We have already installed a Servo Gauge (L&J) which will send a 4-20 mA signal to the Pump Control Panel to show the level of fuel in the Product Recovery Tank. The fuel level will be shown in the fuels inventory computer at the Pumphouse. For this purpose the customer is requesting to use the Barton ATG monitoring system for the product recovery tank. Currently our office is waiting for the funds to be transferred to LANTDIV in order to execute the requested modification.

MAY 2002:

- Coating on the exterior of the tank # 1 is currently being made.
 - Access road for Fillstands has been finished.
 - The interior painting of the Pumphouse is in progress.
 - The exterior painting of the Pumphouse has been finished.
 - Concrete placement on the slab for containment dike # 1 has been finished.
 - The general grading and landscaping for the area and access road to buildings T-800's are in progress.
 - The electrical appliances for tank # 1 are in progress.
 - The suction and fill-up piping for tank # 2 has been finished.
 - The suction and fill-up piping for tank # 1 is in progress.
- The entire system between the new tanks and the pumphouse has been flushed, and the fuel quality has been tested and accepted by POL.
- The Start-Up and Testing of the system has been rescheduled for the second week of July, due to additional work requested by the customer which includes the relocation of the Suction Header and an additional ATG system for the Product Recovery Tank. The date has been fixed on the week between the 8th to the 13th of July 2002.

JUNE 2002:

- The third Coat on the exterior of the tank # 1 is currently being made.
- The interior painting of the Pumphouse has been completed.
- The general grading and landscaping for the area and access road to buildings T-800's are in progress.

- The electrical appliances for tank # 1 are in progress.
- The suction and fill-up piping for tank # 1 has been finished.
- The final connection between the pumphouse and the existing hydrant loop has been finished.
- By customer's request, an ATG system for fuels accountability has been installed on the product recovery tank for maintenance drains & relief systems. Endress and Hauser did the programming of all the fuels management system, including both tanks and the product recovery tank.

JULY 2002:

- The exterior paint of the tank # 1 has been completed.
- The interior painting of the Pumphouse has been completed.
- The general landscaping for the area are in progress (grass). The access road to buildings T-800's has been completed.
- The electrical appliances for tank # 1 have been completed.
- The Start-Up and Testing of the facility was started on July 8th as programmed. It was concluded on July 10th, two days ahead of schedule, and with outstanding results.
- Among the attendees for this process were: Mr. Carl Dreschel, SMSgt. Anthony Fullard and MSgt. Marshall Kennedy from HQ ACC fuels, Mr. Gerald Sanio from fuels HQ USAFE, Mr. Jim Levick, Mr. David Armstrong and Mr. Benjamin Baker from LANTDIV HQ, 1st Lt. Alida Johnson, SMSgt Keith Barkema, MSgt. Steve Rommel, SSgt. Marion Hughes Mayo, SrA. Tim Mancini and SrA. Tim Hatcher from Base POL (65th Logistics Group), MSgt. Buddy Shaffer, SSgt. Clinton Jaynes and SSgt. Sean Nelms from LFM (65th CES), Mrs. Susan Bond, Mr. Carlos Novo and Mr. Duarte Nuno Pereira from Seth LDA (Contractor), Mr. Dave Lloyd, Mr. Jim Edison Jr. and Mr. Joe Cicchese from TPC (subcontractor for the controls and software), Mr. Greg Savage from Petro Chem Tech (subcontractor for all the coordination among subcontractors), Mr. Mike Uffer and Mr. Vic Roberts from Cla-Valve (subcontractor for the POL valves), Mr. Gerald Soper and Mr. John Cressman from Robert and Company (Designers of record), Mr. Hugo Borges, Mr. James Homan, and ENS Erwin Rico from the ROICC office.
- According to Mr. Dreschel, and we quote: "The start-up was the smoothest and problem "free-est" ever seen by Air Combat Command personnel. All equipment and control system performed flawlessly! Not one flange, piping or construction leak was found on the system – this is a first for ACC!" He continues by affirming: "The overall construction is the finest Air Combat Command has ever seen on any Type III system – surpassing those at both Whiteman and Dyess AFBs!"
- Mr. Sanio made similar comments during the Start-Up, qualifying this installation as the best in the European theater.
- Mr. Carl Dreschel from ACC, Mr. John Cressman and Mr. Gerald Soper from Robert and Company, and Mr. David Armstrong from LANTDIV made their respective reports for the Start-Up, indicating all the items requiring attention or re-work; the report from Mr. Armstrong also includes the items indicated by Mr. Gerald Sanio from USAFE. This office consolidated into a unified punch list all the items indicated on these reports that are within the scope of the contract. We also included the items listed by us and by the contractor that required re-work. Currently these items are approximately 80% completed.

AUGUST 2002:

- The general landscaping for the area is in progress (grass). Some of the grass that had already been planted had to be replaced, due to the lack of growth on the specific type of grass selected.
- On August 02 Col. Judy Fedder (65th ABW and USFORAZ Commander) did the official Ribbon Cutting for the installation, which had come into full operation on July 11. During this occasion MSgt. Steve Rommel from POL explained to her the whole operation, and how this new system improved and increased the capabilities of the base and its mission.
- The demolition of the old Pumphouse was started. The 65th CES Liquid Fuels Management removed all the components that are still in good condition and will be needed for their operation, and authorized the salvage and disposal of remaining components.
- The demolition of the old electrical and mechanical components in the old pumphouse is in progress.
- The removal of the roof panels on the old pumphouse is in progress. The existing Pre-engineered building will be disassembled and turned over to the 65th CES.
- The whole site will be restored as landscape. The underground tanks will be removed and the whole site will be cleaned out and landscaped to match the surrounding areas.
- The items on the consolidated punch list items are currently being corrected. Currently these items are approximately 90% completed.
- The A&E of record and Mr. Lino Noble from LANTDIV have scheduled a trip to the Azores in order to do the revision with the customers/users of the Preliminary version of the OMSI manuals. They will be here between September 8th to the 11th, 2002 to do this revision with the customer and this office.

SEPTEMBER 2002:

- The general landscaping for the area is in progress.
- The demolition of the old 18s Hydrant Pumphouse facility is in progress. The whole site will be restored as landscape. The underground tanks will be removed and the whole site will be cleaned out and landscaped to match the surrounding areas.
- The demolition of the old electrical and mechanical components in the old pumphouse is in progress.
- The removal of the roof panels on the old pumphouse has been finished.
- The existing Pre-engineered building has been disassembled and will be turned over to the 65th CES, as soon as the delivery place has been coordinated among POL and LFM.
- The items on the consolidated punch list items are currently being corrected. Currently these items are approximately 95% completed.
- The A&E of record and Mr. Lino Noble from LANTDIV came to the Azores to do the revision with the customers/users of the Preliminary version of the OMSI manuals. This review was done with SMSgt. Barkema and MSgt. Rommel from POL, and MSgt. Shaffer and SSgt. Nelms from LFM on September 10th, 2002 here at the ROICC office.
- The ROICC office requested to the 65th CES Engineering Flight the Work Clearance (digging permit) for the removal of the underground tank and buried components at the old 18's Hydrant location on August 16, 2002. On September 12, 2002 Mr. Borges sent a reminder to TSgt. Kraft and she in turn responded in an e-mail stating that these type of permits were only good for periods of 30 days. The matter was brought to ENS Rico's attention, and he sent an e-mail to Maj. Ramage explaining the situation, and that in the past these clearances were given for the duration of the project. On August 20 TSgt. Kraft

informed ENS Rico that A2C Mendoza would handle the work clearance request. The clearance was finally issued on 30 September 2002.

OCTOBER 2002:

- The general landscaping for the area has been completed with the exception of the area to be restored at the old 18s Hydrant Pumphouse, which is currently being demolished.
- The demolition of the old 18s Hydrant Pumphouse facility is in progress. The whole site will be restored as landscape.
- The demolition of the old electrical and mechanical components in the old pumphouse has been completed.
- The items on the consolidated punch list are currently being corrected. Currently these items are approximately 98% completed.
- The A&E of record and Mr. Lino Noble from LANTDIV are currently working on the final version of the OMSI manuals, following the guidance and requirements from the Customers/Clients and this office. The final version of the manuals will be sent to the ROICC office for distribution, in order to do the final review. Mr. Noble and the A&E will then schedule a final visit to address any questions or concerns.
- The underground tanks are being removed. Four tanks had been removed by the end of October. In order to remove the tanks, the ROICC office had to coordinate with Mr. Gary Campbell from the Electric shop at the 65th CES, since the Black Feeder (High Voltage) runs about 5 ft offset towards the flight line from the center between the two rows of tanks. In order to remove the tanks towards the flight line, the Black feeder has to be de-energized on this section, and the remaining of the line has to be rerouted through the Yellow feeder; this can only be done if the Cryogenic plant is offline. Currently the contractor is removing the inner row of tanks.
- The 65th CES Environmental office took samples from the Oil/Water separator, in order to determine if the water is considered hazardous waste; the results will take 6 to 8 weeks to be completed. Since this could potentially impact the project completion date, Mr. Borges from this office contacted Capt. Carter and suggested to drum the water for the time being until the results were available. This office is waiting for action from the Environmental office.

NOVEMBER 2002:

- The general landscaping for the area has been completed with the exception of the area to be restored at the old 18s Hydrant Pumphouse, which is currently being demolished.
- The demolition of the old 18s Hydrant Pumphouse facility is in progress. The whole site will be restored as landscape.
- The items on the consolidated punch list are currently being corrected. Currently these items are approximately 99% completed.
- The A&E of record and Mr. Lino Noble from LANTDIV will come to the Azores next month in order to present to the users (customer/clients) the Pre-Final version of the OMSI manuals which will address any questions or concerns presented to them during their last visit.
- The underground tanks are being removed. 28 tanks had been removed by the end of November. After doing the coordination with Mr. Gary Campbell from the Electric shop at the 65th CES in order to de-energize the Black Feeder (High Voltage) to do the tank removal, it was found that there is enough clearance between the tanks and the feeder, to carry out the removal of one row of tanks at the time.

The ROICC office instructed the contractor to place in drum the fluids from the Oil/Water separator and have them deliver to Environmental.

At the end of November the Environmental office called to advise the ROICC office that the results had arrived; they advised us that the water did not contain any hazardous substance, and therefore instructed to dump the water in any of the available Oil/Water separators; LFM took care of the water removal.

ADDITIONAL PHOTOGRAPHS:



Pre-engineered building already disassembled with parts stacked up in order, and ready for delivery to the customer.



Removal of one of the existing metal structures in the old 18's Hydrant complex.



View of the old Pumphouse site during the underground tank removal and backfill of the site.